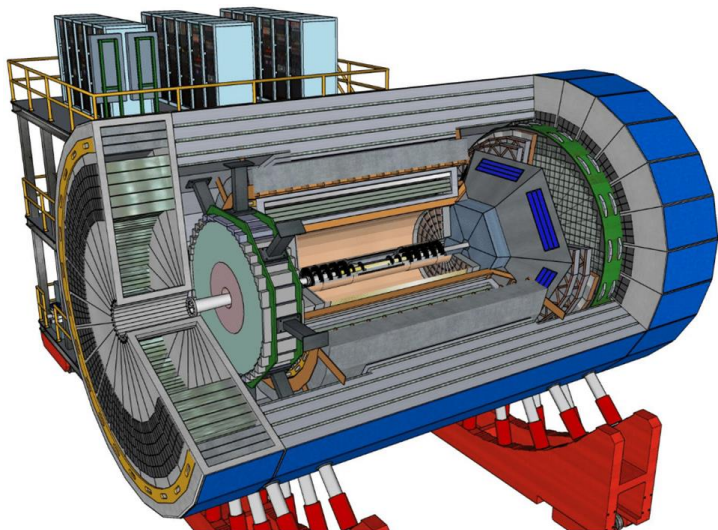


2nd ECCE Simulation Workshop

1st Simulation Workshop: April 2 (<https://indico.bnl.gov/event/11112/>)

- Event generators & fast simulations
- Fun4All framework and full detector simulations
- Simulation data analysis



Focus of this 2nd workshop:

- Structure of DST simulation outputs
- Detector and event evaluators
- How to build an analysis module for your study
- Hands-on examples of physics analyses workflows

Simulation WG: test productions ongoing

- 1st test production completed!
 - ✓ 3 sets of 1,000,000 events for testing purposes:

Sample	Generator	Beam Parameters	Path	Notes
"Min-Bias"	Pythia6	ep, 10 GeV x 250 GeV	/sphenix/user/cdean/ECCE/DST_files/general/pythia6_ep/	Run using internal Fun4All generator
SIDIS	Pythia6	ep, 18 GeV x 100 GeV	/sphenix/user/cdean/ECCE/DST_files/SIDIS/pythia6_ep_18x100/	EIC-smear tree input
HF & Jets	Pythia6	ep, 10 GeV x 100 GeV	/sphenix/user/cdean/ECCE/DST_files/HFandJets/pythia6_ep_10x100/	EIC-smear tree input

Details at: https://wiki.bnl.gov/eicug/index.php/ECCE_Simulations_Working_Group#Production_Status

Timeline:

- **Ongoing:** 1M-event productions with events provided by different WGs (for analysis debugging)
- **June 15:** 1st large simulation production (with few selected detector configurations)
- **July 15:** 2nd (and last) simulation production (optimized based on the analysis of 1st campaign)

Agenda

2nd ECCE Simulation Workshop

📅 Friday 21 May 2021, 09:00 → 13:00 US/Eastern

- | | | | |
|--|---------|---|-------|
| 09:00 | → 09:10 | Computing resources for ECCE | 🕒 10m |
| Speakers: Cristiano Fanelli (MIT), David Lawrence (Jefferson Lab), Joe Osborn (Oak Ridge National Laboratory) | | | |
| 09:20 | → 09:40 | Simulation workflow: from MC input samples to output DSTs | 🕒 20m |
| Speaker: Cameron Dean (LANL) | | | |
| 09:50 | → 10:10 | Structure/content of eval trees and DST files | 🕒 20m |
| Speaker: Dr Jin Huang (Brookhaven National Lab) | | | |
| 10:20 | → 10:40 | An example of physics analysis using the evaluators | 🕒 20m |
| Speaker: Ralf Seidl (RIKEN) | | | |
| 10:50 | → 11:20 | Break | 🕒 30m |
| 11:20 | → 11:40 | How to create/modify and analysis module for your study | 🕒 20m |
| Speaker: Joe Osborn (Oak Ridge National Laboratory) | | | |
| 11:50 | → 12:10 | An example of a physics analysis workflow including the far-forward region | 🕒 20m |
| Speaker: Wenliang Li (College of William and Mary) | | | |
| 12:20 | → 13:00 | General Q&A | 🕒 40m |
| Speakers: Cameron Dean (LANL), Chris Pinkenburg (BNL), Jin Huang (Brookhaven National Lab) | | | |

Event will be recorded
for future reference